If your vehicle needs to be towed

If towing is necessary, we recommend having your vehicle towed by your Lexus dealer or a commercial towing service, using a lift-type truck or flatbed truck.

Use a safety chain system for all towing, and abide by all state/provincial and local laws.

Before towing

The following may indicate a problem with your transmission. Contact your Lexus dealer before towing.

- The engine is running but the vehicle will not move.
- The vehicle makes an abnormal sound.

Emergency towing

If a tow truck is not available in an emergency, your vehicle may be temporarily towed using a cable or chain secured to the emergency towing eyelet. This should only be attempted on hard surfaced roads for short distances at low speeds.

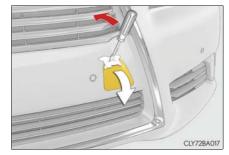
A driver must be in the vehicle to steer and operate the brakes. The vehicle's wheels, drive train, axles, steering and brakes must be in good condition.



Installing towing eyelet

- 1 Take out the towing eyelet (\rightarrow P. 820)
- **2** Remove the eyelet cover using a flathead screwdriver.

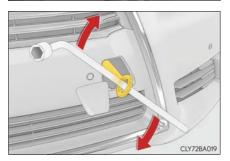
To protect the bodywork, place a rag between the screwdriver and the vehicle body as shown in the illustration.



3 Insert the towing eyelet into the hole and tighten partially by hand.

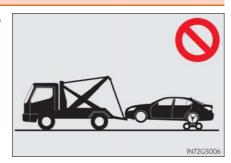


4 Tighten down the towing eyelet securely using a wheel nut wrench.



Towing with a sling-type truck

Do not tow with a sling-type truck to prevent body damage.



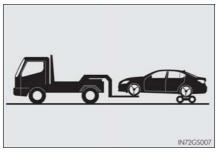
Towing with a wheel-lift type truck

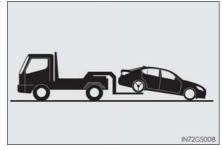
▶ From the front

Use a towing dolly under the rear Turn the engine switch to ACCESwheels.

► From the rear (2WD models)

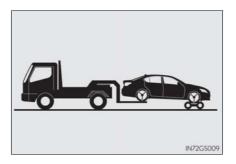
SORY mode so that the steering wheel is unlocked.



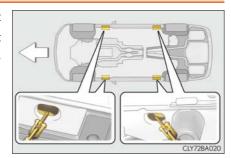


► From the rear (AWD models)

Use a towing dolly under the front wheels.

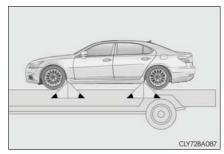


If your Lexus is transported by a flat bed truck, it should be tied down at the locations shown in the illustration.



If you use chains or cables to tie down your vehicle, the angles shaded in black must be 45° .

Do not overly tighten the tie downs or the vehicle may be damaged.



■ Before emergency towing

- 1 Release the parking brake.
- 2 Shift the shift lever to N.
- 3 Turn the engine switch to ACCESSORY (engine off) or IGNITION ON (engine running) mode.

7

When trouble arises

A CAUTION

Observe the following precautions.

Failure to do so may result in death or serious injury.

■ Caution while towing

- Use extreme caution when towing the vehicle.
 Avoid sudden starts or erratic driving maneuvers which place excessive stress on the emergency towing eyelet and the cables or chains. Always be cautious of the surroundings and other vehicles while towing.
- If the engine is not running, the power assist for the brakes and steering will not function, making steering and braking more difficult.

■ Installing a towing eyelet to the vehicle

Make sure that the towing eyelet is installed securely. If not securely installed, the towing eyelet may come loose during towing. ■ To prevent causing serious damage to the transmission and transfer (AWD models) when towing using a wheel-lift type truck

2WD models:

Never tow this vehicle from the front with the rear wheels on the ground. AWD models:

Never tow this vehicle with any of the wheels in contact with the ground.

■ To prevent damage to the vehicle when towing using a wheel-lift type truck 2WD models:

- Do not tow the vehicle from the rear with the engine switch off. The steering lock mechanism is not strong enough to hold the front wheels straight.
- When raising the vehicle from the rear, ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Without adequate clearance, the vehicle could be damaged while being towed from the rear.

AWD models:

When raising the vehicle, ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Without adequate clearance, the vehicle could be damaged while being towed.

■ To prevent body damage when towing with a sling-type truck

Do not tow with a sling-type truck, either from the front or rear.

■ To prevent causing serious damage to the transmission and transfer (AWD models) in emergency towing

Never tow a vehicle from the rear with four wheels on the ground. This may cause serious damage to the transmission and transfer.

7

When trouble arises

If you think something is wrong

If you notice any of the following symptoms, your vehicle probably needs adjustment or repair. Contact your Lexus dealer as soon as possible.

Visible symptoms

- Fluid leaks under the vehicle.
 (Water dripping from the air conditioning after use is normal.)
- Flat-looking tires or uneven tire wear
- Engine coolant temperature gauge needle continually points higher than normal.

Audible symptoms

- Changes in exhaust sound
- Excessive tire squeal when cornering
- Strange noises related to the suspension system
- Pinging or other noises related to the engine

Operational symptoms

- Engine missing, stumbling or running roughly
- Appreciable loss of power
- Vehicle pulls heavily to one side when braking
- Vehicle pulls heavily to one side when driving on a level road
- Loss of brake effectiveness, spongy feeling, pedal almost touches the floor

To minimize the risk of fuel leakage when the engine stalls or when an airbag inflates upon collision, the fuel pump shut off system stops the supply of fuel to the engine.

Follow the procedure below to restart the engine after the system is activated.

- 1 Turn the engine switch to ACCESSORY mode or turn it off.
- 2 Restart the engine.



■ Before starting the engine

Inspect the ground under the vehicle.

If you find that fuel has leaked onto the ground, the fuel system has been damaged and is in need of repair. Do not restart the engine.

If a warning light turns on or a warning buzzer sounds

Calmly perform the following actions if any of the warning lights comes on or flashes. If a light comes on or flashes, but then goes off, this does not necessarily indicate a malfunction in the system. However, if this continues to occur, have the vehicle inspected by your Lexus dealer.

Stop the vehicle immediately. Continuing to drive the vehicle may be dangerous.

The following warning indicates a possible problem in the brake system. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details
(U.S.A.) (Canada)	Brake system warning light (warning buzzer) Low brake fluid Malfunction in the electronically controlled brake system

Stop the vehicle immediately.

The following warning indicates the possibility of damage to the vehicle that may lead to an accident. Immediately stop the vehicle in a safe place and contact your Lexus dealer.

Warning light	Warning light/Details	
===	Charging system warning light Indicates a malfunction in the vehicle's charging system	

Have the vehicle inspected by your Lexus dealer immediately.

Failure to investigate the cause of the following warnings may lead to the system operating abnormally and possibly cause an accident. Have the vehicle inspected by your Lexus dealer immediately.

Warning light	Warning light/Details	
CHECK (U.S.A.) (Canada)	Malfunction indicator lamp Indicates a malfunction in: • The electronic engine control system; • The electronic throttle control system; or • The electronic automatic transmission control system	
*	SRS warning light Indicates a malfunction in: • The SRS airbag system; • The front passenger occupant classification system; • The seat belt pretensioner system; or • The active head restraints system	
(U.S.A.) (Canada)	ABS warning light Indicates a malfunction in: • The ABS; or • The brake assist system	
!	Electric power steering system warning light Indicates a malfunction in the EPS (Electric Power Steering) system	

Warning light	Warning light/Details	
PCS (Flashes) (If equipped)	Pre-collision system warning light Indicates a malfunction in the pre-collision system The warning light will operate as follows, even when the system is not malfunctioning: • The light will flash quickly when the system is operating. (→P. 312) • The light will turn on when the pre-collision braking is disabled. (→P. 308, 314) • The light will turn on when the system cannot temporarily be used.	
[]	Slip indicator Indicates a malfunction in: • The VSC system; • The TRAC system; • The ABS; or • The hill-start assist control system The light will flash when the VSC, the TRAC, the ABS or the hill-start assist control system is operating. (→P. 307)	
HOLD (Flashes)	Brake hold operated indicator Indicates a malfunction in the brake hold system	
(Flashes) (U.S.A.) (Flashes) (Canada)	Parking brake indicator Indicates a malfunction in the electric parking brake	
	Brake system warning light Indicates a malfunction in: The electronically controlled brake system; or The electric parking brake	

Follow the correction procedures.

After taking the specified steps to correct the suspected problem, check that the warning light goes off.

Warning light	Warning light/Details	Correction procedure
	Open door warning light (warning buzzer)*1 Indicates that a door or the trunk is not fully closed	Check that all the doors and the trunk are closed.
In the fuel gauge	Low fuel level warning light Indicates remaining fuel is approximately 3.4 gal. (13 L, 2.8 lmp. gal.) or less	Refuel the vehicle.
*	Seat belt reminder light (warning buzzer)*2 Warns the driver and/or front passenger to fasten their seat belts	Fasten the seat belt. If the front passenger's seat is occupied, the front passenger's seat belt also needs to be fastened to make the warning light (warning buzzer) turn off.
A	Master warning light A buzzer sounds and the warning light comes on and flashes to indicate that the master warning system has detected a malfunction.	→P. 816

Warning light	Warning light/Details	Correction procedure	
	Tire pressure warning light		
(!)	When the light comes on: Low tire inflation pressure such as • Natural causes (→P. 812) • Flat tire (→P. 819)	Adjust the tire inflation pressure (including the spare tire) to the specified level. The light will turn off after a few minutes. In case the light does not turn off even if the tire inflation pressure is adjusted, have the system checked by your Lexus dealer.	
	When the light comes on after blinking for 1 minute: Malfunction in the tire pressure warning system (→P. 812)	Have the system checked by your Lexus dealer.	

^{*1:} Open door warning buzzer:

A buzzer will sound if the vehicle reaches a speed of 3 mph (5 km/h) with any door open.

*2: Driver's and front passenger's seat belt buzzer:

The driver's and front passenger's seat belt buzzer sounds to alert the driver and front passenger that his or her seat belt is not fastened. Once the engine switch is turned to IGNITION ON mode, the buzzer sounds for 6 seconds. If the vehicle reaches a speed of 12 mph (20 km/h), the buzzer sounds once. If the seat belt is still unfastened after 30 seconds, the buzzer will sound intermittently for 10 seconds. Then, if the seat belt is still unfastened, the buzzer will sound in a different tone for 20 more seconds.

■ SRS warning light

This warning light system monitors the airbag sensor assembly, front impact sensors, side impact sensors (front door), side impact sensors (front), side impact sensors (rear door) side impact sensors (rear), driver's seat position sensor, driver's seat belt buckle switch, front passenger occupant classification system (ECU and sensors), "AIR BAG ON" indicator light, "AIR BAG OFF" indicator light, front passenger's seat belt buckle switch, seat belt pretensioners and force limiters, airbags, interconnecting wiring and power sources. (\rightarrow P. 46)

■ Front passenger detection sensor, seat belt reminder and warning buzzer

- If luggage is placed on the front passenger seat, the front passenger detection sensor may cause the warning light to flash and the warning buzzer to sound even if a passenger is not sitting in the seat.
- If a cushion is placed on the seat, the sensor may not detect a passenger, and the warning light may not operate properly.

■ Electric power steering system warning light

When the battery charge becomes insufficient or the voltage temporarily drops, the electric power steering system warning light may come on.

■ If the malfunction indicator lamp comes on while driving

First check the following:

- Is the fuel tank empty?
 If it is, fill the fuel tank immediately.
- Is the fuel tank cap loose?
 If it is, tighten it securely.

The light will go off after several driving trips.

If the light does not go off even after several trips, contact your Lexus dealer as soon as possible.

■ When the tire pressure warning light comes on

Check the tire inflation pressure and adjust it to the appropriate level. Pushing the tire pressure warning reset switch will not turn off the tire pressure warning light.

■ The tire pressure warning light may come on due to natural causes

The tire pressure warning light may come on due to natural causes such as natural air leaks and tire inflation pressure changes caused by temperature. In this case, adjusting the tire inflation pressure will turn off the warning light (after a few minutes).

■ When a tire is replaced with a spare tire

The spare tire is also equipped with a tire pressure warning valve and transmitter. The tire pressure warning light will turn on if the tire inflation pressure of the spare tire is low. If a tire goes flat, the tire pressure warning light will not turn off even though the flat tire has been replaced with the spare tire.

■ Conditions that the tire pressure warning system may not function properly →P. 772

■ If the tire pressure warning light frequently comes on after blinking for 1 minute

If the tire pressure warning light frequently comes on after blinking for 1 minute when the engine switch is turned to IGNITION ON mode, have it checked by your Lexus dealer.

■ Warning buzzer

In some cases, the buzzer may not be heard due to ambient noise or sounds from the audio system.

■ Customization

The vehicle speed linked seat belt reminder buzzer can be disabled. (Customizable features \rightarrow P. 884)

A CAUTION

■ If both the ABS and the brake system warning lights remain on

Stop your vehicle in a safe place immediately and contact your Lexus dealer. The vehicle will become extremely unstable during braking, and the ABS system may fail, which could cause an accident resulting in death or serious injury.

■ When the electric power steering system warning light comes on

The steering wheel may become extremely heavy. If the steering wheel becomes heavier than usual when operating, hold firmly and operate using more force than usual.

If the tire pressure warning light comes on

Be sure to observe the following precautions. Failure to do so could cause a loss of vehicle control and result in death or serious injury.

- Stop your vehicle in a safe place as soon as possible. Adjust the tire inflation pressure immediately.
- If the tire pressure warning light comes on even after tire inflation pressure adjustment, it is probable that you have a flat tire. Check the tires. If a tire is flat, change it with the spare tire and have the flat tire repaired by the nearest Lexus dealer.
- Avoid abrupt maneuvering and braking. If the vehicle tires deteriorate, you could lose control of the steering wheel or the brakes.

■ If a blowout or sudden air leakage should occur

The tire pressure warning system may not activate immediately.

When trouble arises

A CAUTION

Maintenance of the tires

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label (tire and load information label). (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label [tire and load information label], you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a tire pressure monitoring system (TPMS-tire pressure warning system) that illuminates a low tire pressure telltale (tire pressure warning light) when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale (tire pressure warning light) illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS (tire pressure warning system) is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale (tire pressure warning light).

Your vehicle has also been equipped with a TPMS (tire pressure warning system) malfunction indicator to indicate when the system is not operating properly. The TPMS (tire pressure warning system) malfunction indicator is combined with the low tire pressure telltale (tire pressure warning light). When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended.

TPMS (tire pressure warning system) malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS (tire pressure warning system) from functioning properly. Always check the TPMS (tire pressure warning system) malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS (tire pressure warning system) to continue to function properly.

⚠ NOTICE

■ Precaution when installing a different tire

When differently constructed tires or tires of different makers, models or tread patterns are installed, the tire pressure warning system may not operate properly.

When trouble arises

If a warning message is displayed

The multi-information display shows warnings of system malfunctions, incorrectly performed operations, and messages that indicate a need for maintenance. When a message is shown, perform the correction procedure appropriate to the message.

- Master warning light
 - The master warning light also comes on or flashes in order to indicate that a message is currently being displayed on the multi-information display.
- 2 Multi-information display



If any of the warning messages is shown again after the following actions have been performed, contact your Lexus dealer.

Messages and warnings

The warning lights and warning buzzers operate as follows depending on the content of the message. If a message indicates the need for inspection by a dealer, have the vehicle inspected by your Lexus dealer immediately.

<u> </u>	System warning light	Warning buzzer*	Warning
Remains on	_	Sounds	Indicates an important situation such as the malfunction of the system related to driving that may result in danger
_	Remains on or flashes	Sounds	Indicates an important situation such as the malfunction of the system shown on the multi-infor- mation display
Flashes	_	Sounds	Indicates a situation such as damage to the vehicle that may result in danger
Remains on	_	Does not sound	Indicates a condition such as a malfunction of electrical components and the need for maintenance
Flashes	_	Does not sound	Indicates a situation such as the incorrect performance of an operation and how to perform the operation correctly

^{*:} A buzzer sounds the first time a message is shown on the multi-information display.

■ Warning message in radar cruise mode (if equipped)

In the following cases, the warning message may not be displayed even if vehicle-to-vehicle distance decreases:

- When your vehicle and the vehicle ahead are traveling at the same speed or the vehicle ahead is traveling more quickly than your vehicle
- When the vehicle ahead is traveling at a very low speed
- Immediately after cruise control speed is set
- At the instant the accelerator pedal is depressed

■ The LKA (Lane-Keeping Assist) lane departure warning function (if equipped)

In the following cases, the warning message will not be displayed even if a lane line is crossed.

- When the vehicle speed deviates from the operating range of the LKA system functions
- When the lane lines cannot be recognized
- When the steering wheel is turned as far as necessary to cause the vehicle to change lanes

■ System warning lights

The master warning light does not come on or flash in the following cases. Instead, a separate system warning light will come on or flash along with the message shown on the multi-information display.

- ullet Malfunction of the brake system The brake system warning light (red indicator) comes on. (\rightarrow P. 806)
- Malfunction of the electronically controlled brake system or electric parking brake The brake system warning light (yellow indicator) comes on. (→P. 808)
- Malfunction of the ABS The ABS warning light comes on. (→P. 807)
- Malfunction of the charging system The charging system warning light comes on. (→P. 807)
- Indicates that a door or the trunk is not fully closed The open door warning light comes on. (→P. 809)
- ◆ High engine coolant temperature
 The needle of the engine coolant temperature gauge enters the red zone.
 (→P. 840)

If "Maintenance required" is shown (U.S.A. only)

Perform the necessary maintenance.

Please reset the maintenance data after the maintenance is performed. $(\rightarrow P.740)$

■ When "Electrical equipment operation is limited" is shown

This message indicates that the battery is low. When the message is shown, operation of electrical equipment that uses a large amount of electric power, such as the air conditioning system, may be limited temporarily. This does not indicate a malfunction. Operation of electrical equipment will be restored after the battery is charged.

■ Warning buzzer

In some cases, the buzzer may not be heard due to ambient noise or sounds from the audio system.

Remove the flat tire and replace it with the spare tire provided.

For details about tires: \rightarrow P. 767

A CAUTION

■ If you have a flat tire

Do not continue driving with a flat tire.

Driving even a short distance with a flat tire can damage the tire and the wheel beyond repair, which could result in an accident.

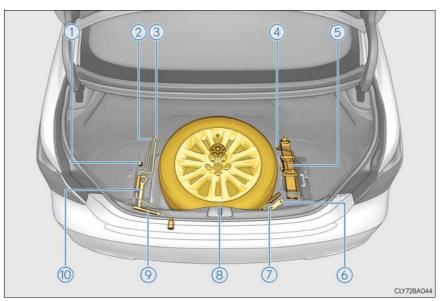
Before jacking up the vehicle

- Stop the vehicle on a hard, flat surface.
- Set the parking brake.
- Shift the shift lever to P.
- Stop the engine.
- Turn on the emergency flashers. $(\rightarrow P. 796)$

7

When trouble arises

Location of the spare tire, jack and tools



- 1 Penlight batteries
- 2 Parking brake release tool
- (3) Jack handle
- 4 Wheel nut wrench
- 5 Jack

- 6 Tools
- 7 Screwdriver
- 8 Spare tire
- 9 Penlight
- 10 Towing eyelet

A CAUTION

Using the tire jack

Observe the following precautions.

Improper use of the tire jack may cause the vehicle to suddenly fall off the jack, leading to death or serious injury.

- Do not use the tire jack for any purpose other than replacing tires or installing and removing tire chains.
- Only use the tire jack that comes with this vehicle for replacing a flat tire. Do not use it on other vehicles, and do not use other tire jacks for replacing tires on this vehicle.
- Put the jack properly in its jack point.
- Do not put any part of your body under the vehicle while it is supported by the
- Do not start the engine or drive the vehicle while the vehicle is supported by the
- Do not raise the vehicle while someone is inside.
- When raising the vehicle, do not put an object on or under the jack.
- Do not raise the vehicle to a height greater than that required to replace the tire.
- Use a jack stand if it is necessary to get under the vehicle.
- Vehicles with electronically modulated air suspension: Be sure to turn off the height control and stop the engine.
- When lowering the vehicle, make sure that there is no-one near the vehicle. If there are people nearby, warn them vocally before lowering.

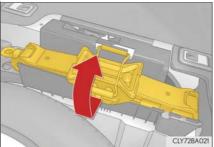
When trouble arises

Taking out the jack and jack handle

- 1 Lift up the luggage mat and secure it by using the hook provided. $(\rightarrow P. 684)$
- 2 Remove the tool tray.

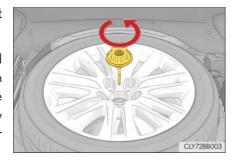


3 Remove the jack after removing the hook.



- 1 Lift up the luggage mat and secure it by using the hook provided. $(\rightarrow P. 684)$
- **2** Loosen the center fastener that secures the spare tire.

If the center fastener cannot be turned by hand, use the wheel nut wrench that is stored in the trunk. (To secure the tire, tighten the center fastener by hand. Do not use the wrench or other tools.)



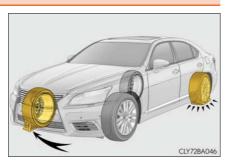
A CAUTION

■ When storing the spare tire

Be careful not to catch fingers or other body parts between the spare tire and the body of the vehicle.

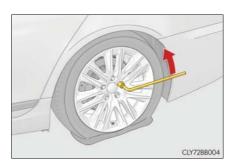
Replacing a flat tire

1 Chock the tires.



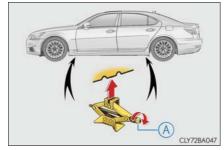
	Flat tire	Wheel chock positions
Front	Left-hand side	Behind the rear right-hand side tire
	Right-hand side	Behind the rear left-hand side tire
Rear	Left-hand side	In front of the front right-hand side tire
	Right-hand side	In front of the front left-hand side tire

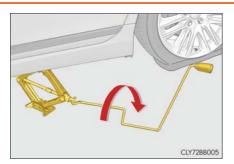
2 Slightly loosen the wheel nuts (one turn).



3 Turn the tire jack portion "A" by hand until the notch of the jack is in contact with the jack point.

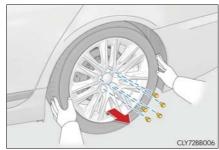
The jack point guides are located under the rocker panel. They indicate the jack point positions.



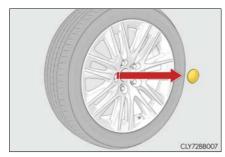


5 Remove all the wheel nuts and the tire.

When resting the tire on the ground, place the tire so that the wheel design faces up to avoid scratching the wheel surface.



6 Remove the wheel ornament by pushing from the reverse side.



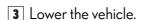
A CAUTION

■ Replacing a flat tire

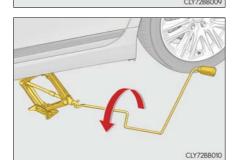
- Observe the following precautions.
 Failure to do so may result in serious injury:
 - Do not try to remove the wheel ornament by hand. Take due care in handling the ornament to avoid unexpected personal injury.
 - Do not touch the disc wheels or the area around the brakes immediately after the vehicle has been driven.
 - After the vehicle has been driven the disc wheels and the area around the brakes will be extremely hot. Touching these areas with hands, feet or other body parts while changing a tire, etc. may result in burns.
- Failure to follow these precautions could cause the wheel nuts to loosen and the tire to fall off, resulting in death or serious injury.
 - Never use oil or grease on the wheel bolts or wheel nuts.
 Oil and grease may cause the wheel nuts to be excessively tightened, leading to bolt or disc wheel damage. In addition, the oil or grease can cause the wheel nuts to loosen and the wheel may fall off, causing a serious accident.
 Remove any oil or grease from the wheel bolts or wheel nuts.
 - Have the wheel nuts tightened with a torque wrench to 103 ft•lbf (140 N•m, 14.3 kgf•m) as soon as possible after changing wheels.
 - Do not attach a heavily damaged wheel ornament, as it may fly off the wheel while the vehicle is moving.
 - When installing a tire, only use wheel nuts that have been specifically designed for that wheel.
 - If there are any cracks or deformations in the bolt screws, nut threads or bolt holes of the wheel, have the vehicle inspected by your Lexus dealer.

- 1 Remove any dirt or foreign matter from the wheel contact surface.
 - If foreign matter is on the wheel contact surface, the wheel nuts may loosen while the vehicle is in motion, causing the tire to come off.
- Install the spare tire and loosely tighten each wheel nut by hand by approximately the same amount.

Turn the wheel nuts until the washers come into contact with the disc wheel.

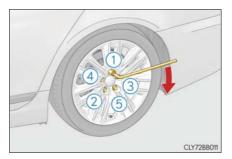






Washer

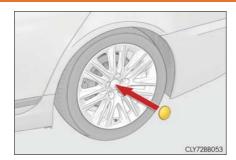
- 4 Firmly tighten each wheel nut two or three times in the order shown in the illustration.
 - Tightening torque: 103 ft*lbf (140 N*m, 14.3 kgf*m)





When trouble arises

5 Reinstall the wheel ornament.



6 Stow the flat tire, tire jack and all tools.

A CAUTION

After using the tools and jack

Before driving, make sure all the tools and jack are securely in place in their storage location to reduce the possibility of personal injury during a collision or sudden braking.

⚠ NOTICE

■ When replacing the tires

When removing or fitting the wheels, tires or the tire pressure warning valve and transmitter, contact your Lexus dealer as the tire pressure warning valve and transmitter may be damaged if not handled correctly.

■ To avoid damage to the tire pressure warning valves and transmitters

When a tire is repaired with liquid sealants, the tire pressure warning valve and transmitter may not operate properly. If a liquid sealant is used, contact your Lexus dealer or other qualified service shop as soon as possible. Make sure to replace the tire pressure warning valve and transmitter when replacing the tire. $(\rightarrow P.768)$

If the engine will not start

If the engine will not start even though correct starting procedures are being followed (\rightarrow P. 182), consider each of the following points:

The engine will not start even though the starter motor operates normally.

One of the following may be the cause of the problem:

- There may not be sufficient fuel in the vehicle's tank. Refuel the vehicle.
- The engine may be flooded. Try to restart the engine again following correct starting procedures. $(\rightarrow P.182)$
- There may be a malfunction in the engine immobilizer system. $(\rightarrow P.77)$

The starter motor turns over slowly, the interior lights and headlights are dim, or the horn does not sound or sounds at a low volume.

One of the following may be the cause of the problem:

- The battery may be discharged. $(\rightarrow P. 837)$
- The battery terminal connections may be loose or corroded.

The starter motor does not turn over

The engine starting system may be malfunctioning due to an electrical problem such as electronic key battery depletion or a blown fuse. However, an interim measure is available to start the engine. $(\rightarrow P. 830)$

The starter motor does not turn over, the interior lights and headlights do not turn on, or the horn does not sound.

One of the following may be the cause of the problem:

- One or both of the battery terminals may be disconnected.
- The battery may be discharged. $(\rightarrow P. 837)$
- There may be a malfunction in the steering lock system.

Contact your Lexus dealer if the problem cannot be repaired, or if repair procedures are unknown.

Emergency start function

When the engine does not start, the following steps can be used as an interim measure to start the engine if the engine switch is functioning normally:

- 1 Turn the engine switch to IGNITION ON mode (\rightarrow P. 201) and check that the parking brake is set.
- 2 Shift the shift lever to P.
- **3** Turn the engine switch to ACCESSORY mode.
- Press and hold the engine switch for about 15 seconds while depressing the brake pedal firmly.

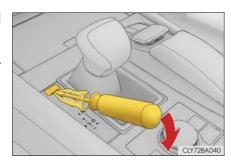
Even if the engine can be started using the above steps, the system may be malfunctioning. Have the vehicle inspected by your Lexus dealer.

If the shift lever cannot be shifted with your foot on the brake pedal, there may be a problem with the shift lock system (a system to prevent accidental operation of the shift lever). Have the vehicle inspected by your Lexus dealer immediately.

The following steps may be used as an emergency measure to ensure that the shift lever can be shifted:

- 1 Turn the engine switch to IGNITION ON mode (\rightarrow P. 201) and check that the parking brake is set.
- **1** Turn the engine switch to ACCESSORY mode.
- 3 Depress the brake pedal.
- 4 Pry the cover up with a flathead screwdriver or equivalent tool.

To prevent damage to the cover, cover the tip of the screwdriver with a rag.



5 Press the shift lock override button.

The shift lever can be shifted while the button is pressed.



If the parking brake cannot be released

In the event that the battery is discharged or switch operation does not release the parking brake, the parking brake can be released manually using the procedure below. This procedure should be performed only if necessary, such as in an emergency.

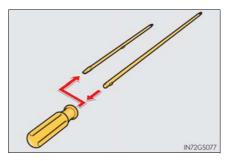
If the switch cannot be operated even when the battery is normal, the parking brake system may be malfunctioning. Have the vehicle inspected by your Lexus dealer immediately.

Before releasing the parking brake manually

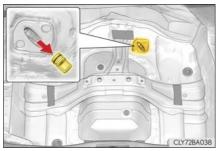
- Shift the shift lever to P.
- Turn the engine switch off.
- Check that the parking brake indicator is off.
- Chock the tires.

Releasing the parking brake manually

- Take out the parking brake release tool and the screwdriver from the trunk. $(\rightarrow P. 820)$
- **2** Replace the screwdriver head with the parking brake release tool.



3 Take out the spare tire. $(\rightarrow P. 823)$



Insert the tool and press it down firmly while turning it counter-clockwise until it stops.



■ Manual operation of the parking brake

The parking brake cannot be set manually.

CAUTION

- When releasing the parking brake manually
 - Shift the shift lever to P, turn the engine switch off and chock the tires. Failure to do so may cause the vehicle to move, resulting in an accident.
 - Turn the engine switch off and check that the parking brake indicator is off. Failure to do so may cause the system to operate and turn the inserted parking brake release tool, resulting in an injury.

7

When trouble arises

If the electronic key does not operate properly

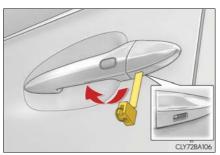
If communication between the electronic key and vehicle is interrupted (\rightarrow P. 114) or the electronic key cannot be used because the battery is depleted, the smart access system with push-button start and wireless remote control cannot be used. In such cases, the doors and trunk can be opened and the engine can be started by following the procedure below.

Locking and unlocking the doors, unlocking the trunk and key linked functions

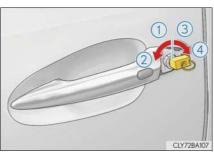
Use the mechanical key built in to the electronic keys to operate the doors. $(\rightarrow P. 101)$

■ Doors

1 Remove the cover on the driver's door handle.



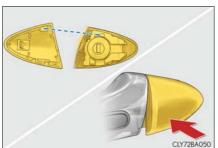
- 2 Locks and unlocks the doors
 - 1 Locks all the doors
 - 2 Closes the windows and moon roof (turn and hold)
 - 3 Unlocks the door
 Turning the key rearward unlocks the driver's door. Turning the key once again unlocks the other doors.
 - 4 Opens the windows and moon roof (turn and hold)



Hook the upper claw of the cover onto the upper catch on the vehicle side, and then push on the lower side of the cover.

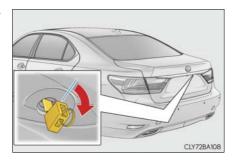
pleted, reinstall the cover.

Make sure that the lower claw of the cover is securely fastened to the lower catch on the vehicle side. If the cover is not securely attached, it may fall off while driving.



■ Trunk

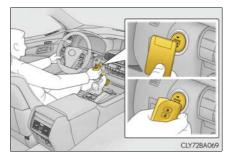
Turn the mechanical key clockwise to open.



Starting the engine

- 1 Ensure that the shift lever is in P and depress the brake pedal.
- 2 Touch the Lexus emblem side of the electronic key to the engine switch.

If any of the doors is opened or closed after the key was touched to the switch to start the vehicle, an alarm will sound to indicate that the start function cannot detect the key.



3 Press the engine switch within 10 seconds of the buzzer sounding, keeping the brake pedal depressed.

In the event that the engine still cannot be started, contact your Lexus dealer.

■ Stopping the engine

Shift the shift lever to P and press the engine switch as you normally do when stopping the engine.

■ Replacing the key battery

As the above procedure is a temporary measure, it is recommended that the electronic key battery be replaced immediately when the battery is depleted. $(\rightarrow P. 785)$

■ Changing engine switch modes

Within 10 seconds of the buzzer sounding, release the brake pedal and press the engine switch.

The engine does not start and modes will be changed each time the switch is pressed. $(\rightarrow P. 201)$

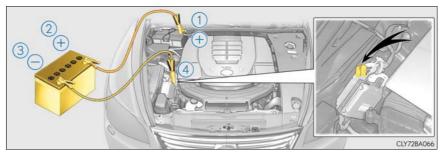
If the vehicle battery is discharged

The following procedures may be used to start the engine if the vehicle's battery is discharged.

You can also call your Lexus dealer or a qualified repair shop.

If you have a set of jumper (or booster) cables and a second vehicle with a 12-volt battery, you can jump start your vehicle by following the steps below.

- ① Open the hood. Remove the engine compartment covers and battery cover. $(\rightarrow P. 750, 755, 756)$
- **2** Connect the jumper cables according to the following procedure:



- 1) Connect a positive jumper cable clamp to the positive (+) battery terminal on your vehicle.
- 2 Connect the clamp on the other end of the positive cable to the positive (+) battery terminal on the second vehicle.
- 3 Connect a negative cable clamp to the negative (-) battery terminal on the second vehicle.
- 4 Connect the clamp at the other end of the negative cable to a solid, stationary, unpainted metallic point away from the battery and any moving parts, as shown in the illustration.

- 3 Start the engine of the second vehicle. Increase the engine speed slightly and maintain at that level for approximately 5 minutes to recharge the battery of your vehicle.
- Open and close any of the doors of your vehicle with the engine switch off.
- Maintain the engine speed of the second vehicle and start the engine of your vehicle by turning the engine switch to IGNITION ON mode.
- 6 Once the vehicle's engine has started, remove the jumper cables in the exact reverse order from which they were connected.

Once the engine starts, have the vehicle inspected at your Lexus dealer as soon as possible.

■ Starting the engine when the battery is discharged

The engine cannot be started by push-starting.

■ To prevent battery discharge

- Turn off the headlights and the audio system while the engine is off.
- Turn off any unnecessary electrical components when the vehicle is running at a low speed for an extended period, such as in heavy traffic.

■ Charging the battery

The electricity stored in the battery will discharge gradually even when the vehicle is not in use, due to natural discharge and the draining effects of certain electrical appliances. If the vehicle is left for a long time, the battery may discharge, and the engine may be unable to start. (The battery recharges automatically during driving.)

■ When recharging or replacing the battery

- Make sure that the key is not inside the vehicle when recharging or replacing the battery. The key may be locked in the vehicle if the alarm is activated. (→P. 80)
- In some cases, it may not be possible to unlock the doors using the smart access system with push-button start when the battery is discharged. Use the wireless remote control or the mechanical key to lock or unlock the doors.

■ If the battery is discharged

The information stored in the computer will be deleted.

If the battery is discharged, have the vehicle inspected by your Lexus dealer.

A CAUTION

■ Avoiding battery fires or explosions

Observe the following precautions to prevent accidentally igniting the flammable gas that may be emitted from the battery:

- Make sure each jumper cable is connected to the correct terminal and that it is not unintentionally in contact with any other than the intended terminal.
- Do not allow the other end of the jumper cable connected to the "+" terminal to come into contact with any other parts or metal surfaces in the area, such as brackets or unpainted metal.
- Do not allow the + and clamps of the jumper cables to come into contact with each other.
- Do not smoke, use matches, cigarette lighters or allow open flame near the battery.

■ Battery precautions

The battery contains poisonous and corrosive acidic electrolyte, while related parts contain lead and lead compounds. Observe the following precautions when handling the battery:

- When working with the battery, always wear safety glasses and take care not to allow any battery fluids (acid) to come into contact with skin, clothing or the vehicle body.
- Do not lean over the battery.
- In the event that battery fluid comes into contact with the skin or eyes, immediately wash the affected area with water and seek medical attention.
 Place a wet sponge or cloth over the affected area until medical attention can be received.
- Always wash your hands after handling the battery support, terminals, and other battery-related parts.
- Do not allow children near the battery.

↑ NOTICE

■ When handling jumper cables

When connecting the jumper cables, ensure that they do not become entangled in the cooling fans or engine drive belt.

If your vehicle overheats

The following may indicate that your vehicle is overheating.

- The needle of the engine coolant temperature gauge (→P. 87) enters the red zone or a loss of engine power is experienced. (For example, the vehicle speed does not increase.)
- Steam comes out from under the hood.

Follow the correction procedure as described below.

- 1 Stop the vehicle in a safe place and turn off the air conditioning system, and then stop the engine.
- 2 If you see steam:
 Carefully lift the hood after the steam subsides.

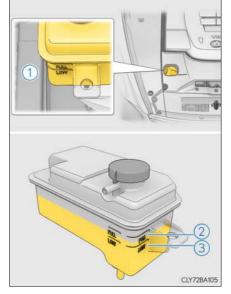
If you do not see steam: Carefully lift the hood.

- down sufficiently, inspect the hoses and radiator core (radiator) for any leaks.
 - (1) Radiator
 - 2 Cooling fans

If a large amount of coolant leaks, immediately contact your Lexus dealer.

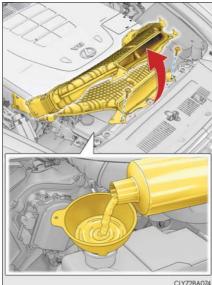


- (1) Reservoir
- ② "FULL"
- 3 "LOW"



5 Add coolant if necessary. (→P.755)

Water can be used in an emergency if coolant is unavailable.



6 Start the engine and turn the air conditioning system on to check that the radiator cooling fan operates and to check for coolant leaks from the radiator or hoses.

The fan operates when the air conditioning system is turned on immediately after a cold start. Confirm that the fan is operating by checking the fan sound and air flow. If it is difficult to check these, turn the air conditioning system on and off repeatedly.

(The fan may not operate in freezing temperatures.)

7 If the fan is not operating:

Stop the engine immediately and contact your Lexus dealer.

If the fan is operating:

Have the vehicle inspected at the nearest Lexus dealer.

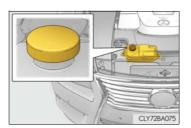
A CAUTION

■ When inspecting under the hood of your vehicle

Observe the following precautions.

Failure to do so may result in serious injury such as burns.

- If steam is seen coming from under the hood, do not open the hood until the steam has subsided. The engine compartment may be very hot.
- Keep hands and clothing (especially a tie, a scarf or a muffler) away from the fans and belts. Failure to do so may cause the hands or clothing to be caught, resulting in serious injury.
- Do not loosen the coolant reservoir cap while the engine and radiator are hot.
 High temperature steam or coolant could spray out.



⚠ NOTICE

■ When adding engine coolant

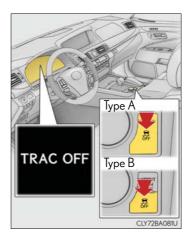
Add coolant slowly after the engine has cooled down sufficiently. Adding cool coolant to a hot engine too quickly can cause damage to the engine.

Carry out the following procedures if the tires spin or the vehicle becomes stuck in mud, dirt or snow:

- 1 Stop the engine. Set the parking brake and shift the shift lever to P.
- 2 Remove the mud, snow or sand from around the rear wheels.
- 3 Place wood, stones or some other material under the rear wheels to help provide traction.
- 4 Restart the engine.
- 5 Shift the shift lever to D or R and release the parking brake. Then, while exercising caution, depress the accelerator pedal.

■ When it is difficult to free the vehicle

Press to turn off TRAC.



7

A CAUTION

■ When attempting to free a stuck vehicle

If you choose to push the vehicle back and forth to free it, make sure the surrounding area is clear to avoid striking other vehicles, objects or people. The vehicle may also lunge forward or lunge back suddenly as it becomes free. Use extreme caution

■ When shifting the shift lever

Be careful not to shift the shift lever with the accelerator pedal depressed. This may lead to unexpected rapid acceleration of the vehicle that may cause an accident resulting in death or serious injury.

⚠ NOTICE

■ To avoid damaging the transmission and other components

- Avoid spinning the rear wheels and depressing the accelerator pedal more than necessary.
- If the vehicle remains stuck even after these procedures are performed, the vehicle may require towing to be freed.